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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,918	04/16/2001	Franck Le	017.39657X00	5412
20457	7590 08/27/2004		EXAMINER	
	LI, TERRY, STOUT & KI	CHANG, SUNRAY		
SUITE 1800	H SEVENTEENTH STREET		ART UNIT	PAPER NUMBER
ARLINGTO	VA 22209-9889		2121	
			DATE MAILED: 08/27/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.	Applicant(s)			
		09/834,918	LE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Sunray Chang	2121			
 Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the	correspondence address			
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLIAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 IX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a replace to reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuted ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠ I	Responsive to communication(s) filed on <u>16 A</u>	<u>pril 2001</u> .				
•	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition	on of Claims					
4)\(\times \) 4 5)\(\times \) 6 6)\(\times \) 7	Claim(s) <u>1-37</u> is/are pending in the application (a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-37</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Application	on Papers					
10)🖾 1	The specification is objected to by the Examine The drawing(s) filed on 15 November 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 1.	are: a) \boxtimes accepted or b) \square object drawing(s) be held in abeyance. So tion is required if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) <u></u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the priority	ts have been received. ts have been received in Applica ority documents have been receiv ou (PCT Rule 17.2(a)).	tion No red in this National Stage			
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date 101602 and 111501.	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 1. Claims 1, 13, and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Jean Walrand (U.S. Patent No. 6,674,760, and referred to as Walrand hereinafter).
- 2. Regarding independent claims 1, 13, and 25, Walrand teaches,
 - A method of classifying [classify, Col. 2, Line 28] Internet Protocol data [data stream, Col. 2, Line 28] to be sent from a source apparatus to a destination apparatus [end-to-end, Col. 2, Line 19] in a packet switch network [pocket-switch network, Col. 1, Line 11].
 - Receiving data at a first node [the first accesses node in a sub-network that receives an IP packet, Col. 2, Line 33 34].
 - Classifying [classifies] data at the first node [first accesses node] based on source routing information [IP destination address, IP source address, and a class of service identifier] of said data [IP packet] [Col. 2, Line 34 36].

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- 3. Regarding dependent claims 8, 20, and 33, Walrand teaches, data [IP pocket, Col. 2, Line 34] is received at said first node [first accesses node, Col. 2, Line 33] from said source apparatus [source, Col. 2, Line 35].
- 4. **Regarding dependent claims 9, 21, and 34,** Walrand teaches, reserving [allocate] resources of nodes [resources] from said source apparatus to said destination apparatus [end-to-end connection]. [Col. 2, Line 36 38]
- 5. Regarding dependent claims 10, 22, and 35, Walrand teaches, forwarding a request from source apparatus to first node [recognizes which end-to-end connection the packet belongs to, Col. 2, Line 36 37].
- 6. Regarding dependent claims 11, 23, and 36, Walrand teaches, storing source routing information at first node [first accesses node in a sub-network that receives an IP packet, Col. 2, Line 33 34].
- 7. Regarding dependent claims 12, 24, and 37, Walrand teaches, forwarding data from first node to a second node [data streams for both inter-subnet and intra-subnet connections, Col. 2, Line 28 29].

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 2 4, 14 16, 26 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walrand, and in view of Jacob W. Jorgensen (U.S. Patent No. 6,452,915, and referred to as Jorgensen hereinafter).

(Walrand as set forth above generally discloses the basic inventions.)

9. **Regarding Claims 2, 14 and 26**, Walrand teaches, source routing information is provided within a routing header of said data [Col. 2, Line 29 - 30].

Walrand does not teach, the data for IPv6.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6, for the purpose of upgrading.

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It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "the data for IPv6" for the purpose of upgrading.

- 10. **Regarding Claims 3, 15 and 27**, Walrand teaches, classifying is based on a destination address [Col. 2, Line 34 35] provided within router header [Col. 2, Line 30].
- 11. Regarding Claims 4, 16 and 28, Walrand teaches,
 - routing header [IP headers, Col. 2, Line 30] includes a segments left field [class of service identifier, Col. 2, Line 35 36], a first destination address field [IP source address, Col. 2, Line 35] and a last destination address field [IP destination address, Col. 2, Line 34 35].
 - Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 35] of routing header [IP headers, Col. 2, Line 30].

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- 12. **Regarding Claim 29,** Walrand teaches, Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 35] of routing header [IP headers, Col. 2, Line 30].
- 13. Claims 5 7, 17 19, and 30 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walrand, and in view of Jorgensen, and further in view of Charles E. Narad (U.S. Patent No. 6,157,955, and referred to as Narad hereinafter).
- 14. **Regarding Claims 5, 17, and 30**, Walrand teaches, source routing information is provided within a routing header of said data [Col. 2, Line 29 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP

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options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

15. **Regarding Claims 6, 18, and 31**, Walrand teaches, classifying is based on a destination address [Col. 2, Line 34 – 35] provided within router header [Col. 2, Line 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

- 16. Regarding Claims 7, 19, and 32, Walrand teaches,
 - routing header [IP headers, Col. 2, Line 30] includes a segments left field [class of service identifier, Col. 2, Line 35 36], a first destination address field [IP source

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address, Col. 2, Line 35] and a last destination address field [IP destination address, Col. 2, Line 34 – 35].

Classifying [classifies, Col. 2, Line 34] is based on information within last destination address field [IP destination address, Col. 2, Line 34 – 35] of routing header [IP headers, Col. 2, Line 30].

Walrand does not teach, routing header with IP options like LSRR and SSRR, and the data for IPv4.

Jorgensen teaches, IP of network layer can be Ipv4 or an IPv6.

Narad teaches, IP options in IP header [Col. 93, Line 43], header contain IP options [Col. 97, Line 39 – 41], and IP options, for example, LSRR, SSRR [Col. 96, Line 47 and 49]

It would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the teaching of Walrand to include "routing header with IP options like LSRR and SSRR, and the data for IPv4" for the purpose of using in different conditions.

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Narad et al. (U.S. Patent No. 6,401,117) discloses an IP options, a SSRR, a LSRR, a

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classifying, pocket-process platform. Narad et al. (U.S. Patent No. 6,421,730) discloses an IP options, a SSRR, a LSRR, a classifying, pocket-process platform.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunray Chang whose telephone number is 703-305-8744. The examiner can normally be reached on M-F 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (703)308-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-3506.

Sunray Chang
Patent Examiner
Group Art Unit 2121
Technology Center 2100
U.S. Patent and Trademark Office

August 24, 2004

Anthony Knight

Supervisory Patent Examiner

Group 3600